

Datasheet: TZA058

**BATCH NUMBER 168904**

<b>Description:</b>	HUMAN ANTI RISANKIZUMAB
<b>Specificity:</b>	RISANKIZUMAB
<b>Other names:</b>	Skyrizi
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD59012ad
<b>Isotype:</b>	Fab antibody
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Product Form

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL phage display library and expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### Source

*E. coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.0095% MIT

### Approx. Protein

Antibody concentration 0.5 mg/ml

## Concentrations

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**Immunogen** Risankizumab

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**Specificity** **Human Anti-Risankizumab Antibody, clone AbD59012ad** is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug risankizumab, and its biosimilar products. It does not recognize the drug target, human Interleukin 23 (IL-23), nor risankizumab in complex with IL-23. This antibody can be used to measure free risankizumab levels in serum from patients.

A pair of anti-risankizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD59012ad is recommended as a capture antibody, paired with Human Anti-Risankizumab Antibody, clone AbD58231 ([TZA059](#)) as the detection antibody.

TZA058 a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog. It is also available in the full length recombinant human IgG1 format under product code [HCA414](#).

Risankizumab (trade name Skyrizi) is a humanized monoclonal antibody of the IgG1/kappa isotype that suppresses the inflammatory effects of interleukin-23 by selectively targeting its unique p19 subunit, subsequently inhibiting IL-23 binding to its receptor and the signaling responsible for the release of pro-inflammatory cytokines and chemokines. Risankizumab is indicated as an interleukin-23 antagonist in the treatment of plaque psoriasis, psoriatic arthritis and Crohn's disease in adults.

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**Affinity** The monovalent intrinsic affinity of Human Anti-Risankizumab Antibody, clone AbD59012ad was measured as  $K_D = 0.1$  nM by real time, label-free molecular interaction analysis on immobilized risankizumab.

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**ELISA** Clone AbD59012ad can be used in indirect ELISA to detect risankizumab. It can also be used as the capture antibody to develop a pharmacokinetic (PK) bridging ELISA for risankizumab, together with [TZA059](#) or [TZA059P](#) as the detection reagent.

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See [bio-rad.com/en-us/trademarks](http://bio-rad.com/en-us/trademarks) for details.  
Skyrizi is a registered trademark of AbbVie Biotechnology Ltd.

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**Health And Safety Information** Material Safety Datasheet documentation #20479 available at:  
<https://www.bio-rad-antibodies.com/SDS/TZA058>  
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**Licensed Use** For *in vitro*. research purposes and for commercial applications for the provision of in vitro testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at [SpyTag and SpyCatcher Products](#), and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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'M433223:241003'

**Printed on 24 Jan 2025**

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